

ARMADA A78



Lean-crewed robotic vessel

The Ocean Infinity Armada Fleet comprises of over 30 vessels in six classes from 8m to 86m in length. It has been designed to reduce offshore exposure and vessel emissions through the use of robotic technologies and remote operation. The Armada Fleet is delivering the next step in offshore safety and makes a significant move towards sustainable operations at sea.

The Armada 78 (A78) is a 78m steel hulled DP2 multirole vessel designed to deliver geophysical survey, geotechnical sampling and inspection, maintenance and repair services. It has installed power and DP2 capability to support operations of Ocean Infinity's fleet of ROV's, seabed drills and CPT systems.

All Armada vessels are designed for remote operation from Ocean Infinity's Remote Control Centre (RCC) network. Vessels are connected to the RCC network with Ocean Infinity's proprietary remote communications system that ensures our assets are secure and safe from cyber threats.

It has a removable aft bulwark enabling over the stern deployment of the Ocean Infinity AUV fleet. The moonpool is fitted with a modular Launch And Recovery System (LARS) that is fully automated and remotely operable from Ocean Infinity's RCC network.

Each Armada vessel class has been designed to offer a multirole capability within its size and capacity and can support a range of subsea equipment from hull mounted geophysical sensors and towed equipment to ROV's and large geotechnical subsea drills.

The A78 is a lean crewed vessel with facilities to host up to sixteen marine and payload personnel. It is prepared for future fuels with two large tank spaces, fuel cell rooms and a DNV Ammonia Ready notation prepared for future upgrade.

SPECIFICATIONS

Type	Armada A78	Class	1A Clean COMF(C-3, V-3) DK(+) DYNPOS(AUTR) E0 NAUT(OSV) Recyclable SF ER(SCR)
Owner/Operator	Ocean Infinity Group	Built	2022 to 2023(under construction) VARD
Flag	Singapore		



Remote Control System	Vard	Survey Positioning	Veripos LD900 DGNSS
Regulatory Regime	Classed IMO (SOLAS, MARPOL) DNV Lean Manned TBC	Survey Heading & Attitude	Sonardyne Sprint 500 INS
Dynamic Positioning	MT DP2 (DP cap 9, 8, 7, 6)	Single Beam Echosounders	N/A
Length	78m	Multi Beam Echosounders	Kongsberg EM124 2° x 2° (A7801/02 Only)
Beam	15m	ADCP/DVL	Nortek Signature VM 100 ADCP/ DVL (A7801/02 Only)
Min. Draft	5m	Side Scan Sonar	OPTION
Displacement (light/full)	2,500T/3,500T	Sub Bottom Profiler	OPTION
Deck Area	690m ²	Magnetometer	OPTION: Subvision 12-Pin Gradiometer (Attached to Schilling HD)
Deck Load	1050T	ROV/AUV	Saab Seaeye Leopard ROV, Schilling HD WROV, Saab eWROV, Hugin 3000/6000
Moonpool Size	Two 9 x 4m	VSAT Antennas	2 x 1m Ka-Band Antennas and 2 x 1.2m Ku-Band Antennas with L-Band Back up
Gross Tonnage	2051T	Installed Power (kW)	Available Power with Batteries 6.5MW/Total Power with Batteries 7 MW
Economic Speed	8-10 Knots	Batteries	2 x 565KWh Corvus Orca Li-ion
Operational Range	Global		
Endurance	21-35 days depending on payload and operation		
Communications Systems	VHF, point-to-point / point-to-multipoint radio, satellite communications, 4G/LTE		

